

none

none

none

EPODOC / EPO

PN - WO9012987 A 19901101

PD - 1990-11-01

PR - WO1989DE00245 19890421

OPD - 1989-04-21

TI - DEVICE FOR FEEDING COMBUSTIBLE MATERIALS AND ADDITIVES IN BURNER INSTALLATIONS

AB - Disclosed is a device for feeding fluidized combustible materials and additives into a combustion chamber, such as those used in a gas turbine installation. The combustible materials are mainly oil and gas, the additives are water, vapour, nitrogen and aqueous solutions of certain salts. The device comprises a nozzle head (1) with at least one first nozzle (2) and at least one second nozzle (3), the nozzle head being joined by means of at least one first pipe (4) and one anchoring element (8) to give a substantially rigid unit. The first pipe (4) feeds a first fluid, in particular combustible material, to the first nozzle (2). Wound round the first pipe (4) are second pipes (6) which feed a second fluid, e.g. inert material, to the at least one second nozzle (3). The second pipes (6) are arranged in such a way that they are flexible, in order that the rigidity and changes in shape due to thermal factors of the device are determined solely by the substantially rigid unit. The second pipes (6) can accommodate any change in shape without subjecting the device to undue stress.

IN - WITZLEBEN MANFRED (DE);DIETRICH WILLI (DE)

PA - SIEMENS AG (DE)

EC - F23C7/00 ; F23D17/00B ; F23L7/00D

IC - F23D17/00 ; F23L7/00

CT - US4140477 A []; DE1910363 A []

© WPI / DERWENT

TI - Twin-nozzle combustion system - has rigid unit incorporating first pipe and resilient pipe to second nozzle

PR - WO1989DE00245 19890421

PN - WO9012987 A 19901101 DW199046 000pp

PA - (SIEI) SIEMENS AG

IC - F23D17/00 ;F23L7/00

IN - DIETRICH W; WITZLEBEN M

AB - WO9012987 The system delivers two or more media into a combustion chamber, having a head (1) with two or more nozzles (2,3). To these first and second pipes (4,6) are respectively connected, while all pipes are secured in an anchoring member (8).

none

none

none

- The head forms with the latter and the first pipe a rigid unit, while the second pipe is a resilient component. The first pipe can be straight and the second curved, typically in a spiral round the first one.
- ADVANTAGE - No heat-expansion problems or sliding seals. 20pp Dwg.No.1/5)

OPD - 1989-04-21

CT - DE1910363;US4140477

DN - BR HU JP NO SU

DS - AT BE CH DE FR GB IT LU NL SE

AN - 1990-348562 [46]